

USCMS Engineer Status Report for August 2003

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September 8, 2003

1 Work Performed This Month

DDD

On-going support and debugging. String and Numeric element processing were added as alternatives for using the eval attribute of Parameter elements.

I used IGUANA to view geometry again and this took some time since I was working with the latest releases of COBRA and IGUANA. It was successful. This is part of an on-going effort to produce a good tutorial for the DDD.

I have started to work on the test beam geometry for the May 2003. This should allow Physicists to work in Reconstruction (ORCA) and Simulation (OSCAR) to compare things to the test beam results.

FAST Site Oracle Support

Support for the year was paid to Easysoft and the new license was installed on the new hardware at CERN. No more is needed on this in an immediate sense.

CMS Developmental Grid Testbed:

Equipment has arrived and been tested. It will be installed in the coming week or so according to and with help from Caltech (Suresh Singh and Vladimir Litvin as "help" resources).

I have been managing two students who have helped with the physical unpacking and installation of the hardware. They will also be learning software installation as time permits.

User Support

As I mentioned, I have been managing two students for summer work. Mostly I assign them things and it does not take too much of my time. I have been teaching them the fundamentals of running ORCA and IGUANA. They have also been learning ROOT and PAW from one of the faculty. Over the next year they will be working with faculty on some physics and so while they are in summer employment mode they are learning about the software as much as possible.

2 Plans For Next Month

DDD

Continue to stay involved in debugging and enhancements as time and other developer permit.

CMS Developmental Grid Testbed and User Support

Continue with basic software installation (operating system, clustering, batch manager(s), etc.) then proceed to install other software for running CMS jobs. Part of this support inevitably involves working within an existing infrastructure in the Department of Physics.

Conditions DB

Although I've missed one of the HCAL/EMU Database meetings I intend to keep attending all those meetings and being involved to whatever extent the physicists need or want. I have not to date done much work on this.

Vacation

I plan to take a 1 week vacation or so at the end of September.

3 Longer Term Plans

Overall

I plan to continue to work on the detector description, support and work with the endcap muon physicists, the grid work and the conditions database issues.

Travel plans

I intend to arrive at CERN on November 1st and stay through at least November 15th. I may end up staying until Thanksgiving. I'm not sure at this point.

By the time I get there I plan to have the DGT cluster in Davis running and I also plan to have some progress on the Conditions and DDD. It is not clear to me at this point what I can do for the Conditions DB other than some reading and learning.

For the DDD progress depends on colleagues at CERN.

For the testbeam portion of the work I plan to have a testbeam geometry ready in the next couple of months so maybe by then someone can use it to look at physics.

4 Links To Supporting Documentation

- Iguana view of only two chambers.... This is just a view, the geometry has not actually been changed yet. This is the goal of the changes.
<http://hepse.ucdavis.edu/TestBeamPlay030829/>